

## SURGICAL MICROSCOPE

# AM-5000 Series

## Surgical Microscope

### A wider working range. A detailed view.

Surgical microscope for dental, ENT and general surgery, combining a 6-step optical system, a 198–455 mm variable objective, optional FORA ergonomics, LED illumination up to 80,000 lux and a built-in 4K camera.

#### 6-step

Manual magnification

#### 198–455 mm

Variable objective

#### 80,000 lux

With 250 mm objective



## Highlights

### Wide working range

The 198–455 mm variable objective suits operators of different heights, and six magnification steps give one step more than conventional 5-step systems.

### Single-handed operation

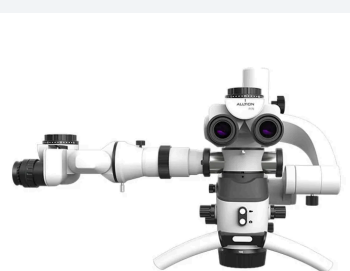
Magnification, freeze, photo and video and the variable objective can all be operated with your thumb without taking your hand off the handle.

### FORA option

The optional flexible optics rotating assembly lets the optical pod change direction while the binocular stays where it is, so you keep a natural, straight posture.

### Built-in 4K camera

Photograph, record, freeze, compare and play back images, with USB storage, HDMI output and Wi-Fi image transmission.



## Key features

- Premium apochromatic optics.

- 6-step magnification (1.4X–22.8X) and 198–455 mm variable objective.
  - Built-in 4K camera with Wi-Fi image transmission.
  - Up to 80,000 lux with a 250 mm objective; three spot sizes and green/yellow filters.
- Optional FORA with 90° extender, pendulum rotation device and beam splitter.
  - Optional dual white light illumination system.
  - Single-handed controls and broad optional-accessory support.

Specifications

OPTICS & OBSERVATION

|                             |                                                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Magnification changer       | Manual 6-step                                                                                                                                                                             |
| Total magnification         | 1.4X–22.8X                                                                                                                                                                                |
| Objective                   | 198–455 mm variable standard; 250 / 300 / 400 mm objective optional                                                                                                                       |
| Binocular                   | 0–180° inclined with pupillary distance knob (standard); 45° or straight binocular optional; IPD 50–75 mm                                                                                 |
| Eyepiece                    | 12.5X/18 mm standard; 10X/21 mm optional; diopter ±7D                                                                                                                                     |
| Optics                      | Premium apochromatic technology                                                                                                                                                           |
| Optical extender (optional) | 30° binocular extender + beam splitter + rotation device; 45° / 90° binocular extender with angle rotation device                                                                         |
| FORA (optional)             | 90° binocular extender, pendulum rotation device and beam splitter (2:8 / 5:5)                                                                                                            |
| Optional accessories        | Assistant scope kits, face-to-face stereo bridge, ALL-CAM2 / ALL-CAM4, HDMI capture card, monitor bracket, wireless foot pedal, camera adapters, laser protecting filter and splash guard |

LIGHT & ILLUMINATION

|                      |                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------|
| Illumination         | Up to 80,000 lux with a 250 mm fixed-focus objective; CRI ≥85%; 5500K; LED life ≥50,000 hours |
| Light spot / filters | Maximum / medium / minimum spot; green and yellow filters                                     |
| Dual white light     | Dual white light illumination system optional                                                 |

IMAGING & DOCUMENTATION

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| 4K camera          | Built-in; 1/1.8 inch Sony 8-megapixel CMOS; 4K 3840 × 2160 60 FPS (16:9)      |
| Camera interfaces  | HDMI 2.0 ×1; USB 2.0 ×1 (mouse); USB 3.0 ×1 (USB flash disk); 3.5 mm audio ×1 |
| Recording / stills | 4K 30 FPS or 1080P 30 FPS video; 8M / 2M still images; JPG / MP4              |
| Camera split       | 2:8; 5:5 optional                                                             |
| Connectivity       | Built-in Wi-Fi image transmission                                             |

POSITIONING & INSTALLATION

|         |                                                                                                                                                             |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power   | Input AC100–240V, 50/60Hz; output DC12V/3A; 25–80VA                                                                                                         |
| Support | Floor stand standard; fixed floor stand, floor stand with 950 mm pantograph arm, ceiling, low- or high-position wall, table and table-clamp mounts optional |

Options

- 250 mm, 300 mm or 400 mm objective (198–455 mm variable standard).
  - Straight or 45° binocular head (0–180° standard).
- Optical extender, beam splitter or rotation device.
  - Fixed-floor, pantograph-arm floor stand, ceiling, wall, table or table-clamp mounting (floor stand standard).

Accessories

- 2D or 3D assistant scope kit
  - Face-to-face stereo bridge
  - 30°, 45° or 90° binocular extender with rotation device
  - Monitor and monitor bracket
  - HDMI capture card
- Wireless foot pedal
  - DSLR or mobile phone adapter kit
  - Laser protection filter
  - Extra magnifier
  - Objective splash guard and sterilisation cover

Specifications can change and may vary by configuration. Confirm the supplied specifications before ordering.

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